IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A method~~,~~ comprising:

determining an input image from a signal comprising images from a plurality of cameras;

determining input image information from the input image;

matching ~~an~~ the input image with one of a plurality of states~~, the input image determined from a signal comprising images from a plurality of cameras~~ by comparing the input image information with state image information corresponding to each of at least one state; and

assigning the input image to one of the states when the input image information matches the state image information of the one state,

wherein the step of comparing comprises the sub-steps of:

determining if at least one state exists; and

adding a new state that corresponds to the input image when at least one state does not exist,

and wherein the step of assigning comprises the step of:

assigning the input image to the new state.

2-3. (Cancelled).

4. (Currently Amended) The method ~~of~~ as claimed in claim ~~2~~1, wherein~~:~~

the step of comparing comprises the step of:

_____when the input image information does not match any of the information for each of the at least one states, adding a new state that corresponds to the input image~~;~~,

and wherein

the step of assigning comprises the step of:

_____assigning the input image to the new state.

5. (Currently Amended) The method ~~of~~ as claimed in claim ~~2~~1, wherein the at least one state comprises a plurality of states, and wherein the method further comprises the step of performing training to determine the plurality of states.

6. The method ~~of~~ as claimed in claim ~~2~~1, wherein said method further ~~comprising~~ comprises the step of:

_____outputting the input image, the input image output as being associated with the one state.

7. (Currently Amended) The method ~~of~~ as claimed in claim ~~2~~1, wherein the images on the signal are determined asynchronously.

8. (Currently Amended) The method ~~of~~ as claimed in claim 7, wherein said method further ~~comprising~~ comprises the step of:

multiplexing the images onto the signal, the multiplexing step ~~of multiplexing~~being performed wherein a sequence of switching between cameras is not predetermined.

9. (Currently Amended) The method ~~of~~ as claimed in claim ~~21~~1, wherein the images on the signal are determined synchronously.

10. (Currently Amended) The method ~~of~~ as claimed in claim ~~21~~1, wherein said method further comprising the steps of:

outputting the input image, the step of outputting associating the input image with the one state;

determining if an event is occurring on the input image, the step of determining comparing previous images associated with the one state with a present image.

11. (Currently Amended) The method ~~of~~ as claimed in claim ~~21~~1, wherein the input image information matches state image information of the one state when a metric comparing the input image information and the state image information of the one state falls within a predetermined value.

12. (Currently Amended) The method ~~of~~ as claimed in claim ~~2~~1, wherein:

the step of determining input image information from the input image comprises ~~the step of~~ determining a histogram from the input image;

the step of comparing comprises ~~the step of~~ comparing the histogram of the input image with histograms corresponding to each of at least one states; and

the step of assigning comprises ~~the step of~~ assigning the input image to one of the states when the histogram of the input image matches the histogram of the one state within a predetermined error.

13. (Currently Amended) The method ~~of~~ as claimed in claim ~~2~~1, wherein:

the step of determining input image information from the input image comprises ~~the step of~~ determining a plurality of features from the input image;

the step of comparing comprises ~~the step of~~ comparing the features of the input image with each of a plurality of features corresponding to the at least one states; and

the step of assigning comprises ~~the step of~~ assigning the input image to one of the states when the features of the input

image match the features of the one state within a predetermined error.

14. (Currently Amended) The method ~~of~~ as claimed in claim 13, wherein each of the states comprises a state of a Hidden Markov Model (HMM).

15. (Currently Amended) A system comprising:

a memory ~~that stores~~for storing computer readable code; and

a processor operatively coupled to said memory, said processor configured to implement said computer readable code, said computer readable code ~~configured to~~causing said processor to:

determine an input image from a signal comprising images from a plurality of cameras;

determine input image information from the input image;

compare the input image information with state image information corresponding to each of at least one states; and

assign the input image to one of the states when the input image information matches state image information of the one state, wherein in the comparing step, the computer readable code causes the processor to:

determine if at least one state exists; and

add a new state that corresponds to the input image when at least one state does not exist,

and wherein the assigning step, the computer readable code causes the processor to:

assign the input image to the new state.

16. (Currently Amended) An article of manufacture comprising: a computer readable medium having computer readable program code means embodied thereon, said computer readable program code being executable by a processor to performs acts comprising:

determining an input image from a signal comprising images from a plurality of cameras;

determining input image information from the input image;

comparing the input image information with state image information corresponding to each of at least one states; and

assigning the input image to one of the states when the input image information matches state image information of the one state,

wherein in the comparing step, the computer readable code causes the processor to:

determine if at least one state exists; and

add a new state that corresponds to the input image when at least one state does not exist,

and wherein the assigning step, the computer readable code causes the processor to:

assign the input image to the new state.